

Amendments to the Claims

This listing of the claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently amended) A method of billing for location data that represents the location of a mobile entity, wherein:

the location data is provided in encrypted form by a location server to a recipient that is one of the mobile entity and a service system for providing a location-based service to the mobile entity using said location data as an input, the location data being encrypted such that it cannot be decrypted by the recipient;
the encrypted location data is subsequently passed by said recipient to a decryption entity that is not under the control of a user of the recipient; and
the decryption entity decrypts the location data and generates a billing record in respect of the location data.

2. (Original) A method according to claim 1, wherein the encrypted location data is decrypted by the decryption entity with explicit or implicit authorisation by the mobile entity.

3. (Original) A method according to claim 1, wherein the recipient is the mobile entity and the decryption entity is under the control of the location server or an agent of the latter.

4. (Original) A method according to claim 2, wherein the recipient is the mobile entity and the decryption entity is under the control of the location server or an agent of the latter.

5. (Currently amended) A method according to claim 4, wherein mobile entity passes the encrypted location data to a service system in association with a service request to the

latter, the service system then passing the encrypted location data to the decryption entity for decryption and return.

6. (Original) A method according to claim 5, wherein the encrypted location data includes the identity of the mobile entity to which the location data relates, the mobile entity passing the service system authenticatable identity data concerning itself and the service system, and the service system passing the identity data to the decryption entity which authenticates the identity data and only returns the decrypted location data to the service system if both:

- the mobile entity indicated by the identity data is the same as the one to which the location data relates, and
- service system indicated by the identity data is the same as the one asking the decryption entity to decrypt the location data.

7. (Original) A method according to claim 4, wherein mobile entity passes the encrypted location data to the decryption entity for decryption and return.

8. (Original) A method according to claim 1, wherein the recipient is the mobile entity and the decryption entity is a service system to which the mobile entity passes the encrypted location data in association with a service request.

9. (Original) A method according to claim 2, wherein the recipient is the mobile entity and the decryption entity is a service system to which the mobile entity passes the encrypted location data in association with a service request.

10. (Original) A method according to claim 1, wherein the recipient is the service system and the decryption entity is under the control of the location server or an agent of the latter.

11. (Original) A method according to claim 2, wherein the recipient is the service system and the decryption entity is under the control of the location server or an agent of the latter.

12. (Original) A method according to claim 11, wherein the service system passes the encrypted location data to the decryption entity for decryption and return, upon receipt of an authoring service request from the mobile entity.

13. (Original) A method according to claim 12, wherein the encrypted location data includes the identity of the mobile entity to which the location data relates, the mobile entity passing the service system authenticatable identity data concerning itself and the service system, and the service system passing the identity data to the decryption entity which authenticates the identity data and only returns the decrypted location data to the service system if both:

- the mobile entity indicated by the identity data is the same as the one to which the location data relates, and
- service system indicated by the identity data is the same as the one asking the decryption entity to decrypt the location data.

14. (Original) A method according to claim 11, wherein the mobile entity obtains the encrypted location data from the service system and passes it to the decryption entity for decryption and return.

15. (Original) A method according to claim 14, wherein the encrypted location data includes the identity of the mobile entity to which the location data relates, the mobile entity passing the decryption entity authenticatable identity data concerning itself, and the decryption entity authenticating the identity data and only returning the decrypted location data to the service system if the mobile entity indicated by the identity data is the same as the one to which the location data relates.

16. (Original) A method according to claim 11, wherein the service system is a location-data archive system.

17. (Original) A method according to claim 1, wherein the recipient is the service system and the decrypting entity is the mobile entity, the latter having received the encrypted location data from the service system.

18. (Previously presented) A method according to claim 2, wherein the recipient is the service system and the decrypting entity is the mobile entity, the latter having received the encrypted location data from the service system.

19-23 Canceled.

24. (Currently amended) An arrangement for billing for location data that represents the location of a mobile entity, the system comprising:

- a location server for providing said location data in encrypted form requiring knowledge of a secret to decrypt it;

- a recipient for receiving the encrypted location data from the location server, the recipient being one of the mobile entity and a service system for providing a location-based service to the mobile entity using said location data as an input, the location server being arranged to encrypt said location data such that it cannot be decrypted by the recipient; and

- a decryption entity that is not under the control of a user of the recipient, the decryption entity being adapted to decrypt the encrypted location data and to generate a corresponding billing record in respect of the location data;

the recipient being arranged to pass the encrypted location data directly or indirectly to the decryption entity for decryption.

25. (Previously presented) An arrangement according to claim 24, wherein the recipient is the mobile entity and the decryption entity is under the control of the location server or an agent of the latter.

26. (Previously presented) An arrangement according to claim 25, wherein the mobile entity is operative to pass the encrypted location data to a service system in association

with a service request to the latter, the service system being arranged to pass this encrypted location data to the decryption entity for decryption and return.

27. (Previously presented) An arrangement according to claim 25, wherein the mobile entity is operative to pass the encrypted location data directly to the decryption entity for decryption and return.

28. (Previously presented) An arrangement according to claim 24, wherein the recipient is the service system and the decryption entity is under the control of the location server or an agent of the latter.

29. (Previously presented) An arrangement according to claim 28, wherein the service system is operative to pass the encrypted location data to the decryption entity for decryption and return, upon receipt of an authorising service request from the mobile entity, the mobile entity being adapted to generate said service request.

30. (Previously presented) An arrangement according to claim 28, wherein the mobile entity is operative to obtain the encrypted location data from the service and pass it to the decryption entity for decryption and return.

31. (Previously presented) A method of providing location data that represents the location of a mobile entity, wherein:

the location data is provided in encrypted form by a location server to the mobile entity, the location data being encrypted such that it can only be decrypted by a decryption entity associated with the location server;

the encrypted location data is subsequently passed by the mobile entity to a service system to enable the latter to provide a location-based service to the mobile entity using said location data in unencrypted form as an input; and

the service system obtains the location data in unencrypted form by using a said decryption entity to decrypt the encrypted location data.

32. (Previously presented) A method according to claim 31, wherein the encrypted location data includes the identity of the mobile entity to which the location data relates, the mobile entity passing the service system authenticatable identity data concerning itself and the service system, and the service system passing the identity data to the decryption entity which authenticates the identity data and only returns the decrypted location data to the service system if both:

- the mobile entity indicated by the identity data is the same as the one to which the location data relates, and
- service system indicated by the identity data is the same as the one asking the decryption entity to decrypt the location data.